

## Cryl-A-Cure Hardener SAFETY DATA SHEET

### 1. IDENTIFICATION

**Product Identifier:** Cryl-A-Cure Hardener

**Recommended use:** Floor Surfacing

**Manufacturer Name:** Dur-A-Flex, Inc.  
95 Goodwin Street  
East Hartford, CT 06108

**Telephone number:** 860-528-9838

**Emergency phone number:** 1-800- 424-9300 (CHEMTREC)

**Date of Preparation:** September 8, 2014

### 2. HAZARD(S) IDENTIFICATION

**Classification:**

Physical	Health
Organic Peroxide Type B	Eye Irritation Category 2A Skin Sensitization Category 1 Toxic to Reproduction Category 2

**Labeling:**

**Warning!**



**Hazard statement(s)**

Heating may cause a fire.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Suspected of damaging fertility or the unborn child.

**Precautionary statement(s)**

Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Keep away from heat, sparks, open flames, and hot surfaces.  
No smoking.  
Keep away from clothing and other combustible materials.  
Keep only in original container.  
Avoid breathing dust.  
Wash thoroughly after handling.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves, protective clothing, eye protection or

Page 1 of 6

face protection.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation or rash occurs: Get medical attention.  
Wash contaminated clothing before reuse.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical attention.  
IF exposed or concerned: Get medical attention.  
Store locked up.  
Store at temperatures not exceeding 25°C/ 77°F. Keep cool.  
Protect from sunlight.  
Store away from other materials.  
Dispose of contents and container in accordance with local and national regulations.

### 3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical name	CAS No.	Concentration
Dicyclohexyl Phthalate	84-61-7	40-55%
Dibenzoyl Peroxide	94-36-0	49-51%

**The specific identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.**

### 4. FIRST-AID MEASURES

**Inhalation:** Remove to fresh air. If irritation occurs or breathing is difficult, get medical attention.

**Skin contact:** Remove contaminated clothing. Wash with soap and water. If irritation or rash develops, get medical attention.

**Eye contact:** Flush with large quantities of water for several minutes, holding the eyelids apart. Get medical attention if irritation occurs and persists.

**Ingestion:** If conscious, rinse mouth with water. Do not induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Get medical attention if symptoms develop.

**Most important symptoms/effects, acute and delayed:** Causes eye irritation. May cause skin irritation. May cause allergic skin reaction. May cause mucous membrane and respiratory irritation, coughing and difficulty in breathing.

**Indication of immediate medical attention and special treatment, if necessary:** None expected under normal conditions of use.

### 5. FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:** Use water spray, carbon dioxide, foam or dry chemical. Do not use halon. Use water to wet down the product after a fire to prevent re-ignition.

**Specific hazards arising from the chemical:** Combustion may produce carbon monoxide, carbon dioxide, benzoic acid and benzene. Product may re-ignite. After a fire, ventilate thoroughly, wet with water and clean walls and metallic surfaces.

**Special protective equipment and precautions for fire-fighters:** Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing. Cool fire exposed containers with water.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment, and emergency procedures:** Wear appropriate protective clothing as described in Section 8. Evacuate the area. Remove ignition sources.

**Environmental precautions:** Avoid release to the environment. Report releases as required by local, state and federal authorities.

**Methods and materials for containment and cleaning up:** Moisten spill with water. Sweep up and place into an appropriate container for disposal. Avoid generating dust. Keep contents moist. Wash spill site with soap and water.

## 7. HANDLING AND STORAGE

**Precautions for safe handling:** Avoid contact with eyes, skin and clothing. Avoid breathing dust. Wash thoroughly after handling and before eating, drinking, smoking or using the toilet. Use only with adequate ventilation. Keep away from heat, sparks, open flames and all ignition sources. Keep away from reducing agents and other incompatible materials. Avoid generating dust. Do not allow the product to dry out. Explosive when dry. Dust explosion is possible in the presence of air. Use non sparking tools if there is a possibility for a dust explosion to occur. Do not cut or weld on or near the container even when empty.

**Conditions for safe storage, including any incompatibilities:** Store in a well ventilated area away from sources of heat and direct sunlight. Store separate from other chemicals. Store only in original container. Protect from physical damage. Store away from reducing agents and other incompatible materials. Keep away from food, drink and animal feedingstuffs. Store below 25°C to protect product quality.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Exposure guidelines:

Dicyclohexyl Phthalate	None Established
Dibenzoyl Peroxide	5 mg/m <sup>3</sup> TWA OSHA PEL 5 mg/m <sup>3</sup> TWA ACGIH TLV

**Appropriate engineering controls:** Use with adequate general or local exhaust ventilation to maintain exposures below occupational exposure limits. Use explosion-proof equipment where required.

### Personal Protective Equipment:

**Respiratory protection:** If the exposures limits are exceeded, a NIOSH approved respirator with a dust/mist prefilter or supplied air respirator is recommended. Selection and use of respiratory equipment must be in accordance with OSHA 1910.134 and good industrial hygiene practice.

**Skin protection:** Wear impervious gloves such as butyl rubber.

**Eye protection:** Chemical safety goggles recommended.

**Other:** Impervious clothing as needed to prevent contact. Do not take contaminated clothing home. Remove contaminated clothing and launder before reuse. An eye wash should be available in the immediate work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Appearance (physical state, color, etc.):** White powder

**Odor:** Faint odor

<b>Odor threshold:</b> Not available	<b>pH:</b> Not available
<b>Melting Point/Freezing Point:</b> Decomposes before melting	<b>Boiling Point:</b> Not applicable
<b>Flash point:</b> Not applicable	<b>Evaporation rate:</b> Not applicable
<b>Flammability (solid, gas):</b> SADT 55°C	
<b>Flammable limits: LEL:</b> Not applicable	<b>UEL:</b> Not applicable
<b>Vapor pressure:</b> Not applicable	<b>Vapor density:</b> Not applicable
<b>Relative density:</b> 1.23	<b>Solubility(is):</b> Insoluble in water
<b>Partition coefficient: n-Octanol/water:</b> Not applicable	<b>Auto-ignition temperature:</b> Not available
<b>Decomposition temperature:</b> Not available	<b>Viscosity:</b> Not applicable

## 10. STABILITY AND REACTIVITY

**Reactivity:** None known.

**Chemical stability:** Stable. Contact with an incompatible substance can cause decomposition at or below the Self Accelerating Decomposition Temperature (55°C).

**Possibility of hazardous reactions:** May be explosive if dry.

**Conditions to avoid:** Avoid shock and friction. Avoid confinement of product. Do not let the product dry out. Explosive when dry.

**Incompatible materials:** Avoid contact with rust, iron, copper acids, alkalies, heavy metals and reducing agents. Do not mix with peroxide accelerators. Use only stainless steel, polyethylene and glass-lined equipment.

**Hazardous decomposition products:** Thermal decomposition may produce carbon oxides, benzene, benzoic acid, diphenyl, phenylbenzoate.

## 11. TOXICOLOGICAL INFORMATION

**Inhalation:** Inhalation if dust may cause mucous membrane and respiratory tract irritation, coughing and difficulty in breathing.

**Ingestion:** Swallowing may cause gastrointestinal irritation, nausea and diarrhea.

**Skin contact:** Prolonged skin contact may cause irritation. May cause allergic skin reaction (sensitization).

**Eye contact:** May cause irritation with redness, tearing, stinging and swelling.

**Chronic effects from short- and long-term exposure:** None known.

**Reproductive Toxicity:** Pregnant rats were administered orally dicyclohexyl phthalate during gestation at 0, 20, 100 and 500 mg/day. Testosterone levels of prepubertal and prepubertal rats were reduced in the high dose group. Atrophic and amorphous tubules, spermatogenic cell debris, apoptotic cells, adherent tubules, Sertoli cell vacuolisation, prostatic atrophic tubules and prostatic intraepithelial neoplasia (PIN) were observed in the reproductive organs of treated animals at all developmental stages. This study shows that dicyclohexyl phthalate may have antiandrogenic effects on male reproductive development before and after birth.

**Sensitization:** Dicyclohexyl phthalate and dibenzoyl peroxide have been shown to cause sensitization in laboratory animals.

**Mutagenicity:** Dibenzoyl peroxide was negative in the AMES test, in an in vitro mammalian cell gene mutation assay, and in an in vivo chromosome aberration assay.

**Carcinogenicity:** None of the components are listed as a carcinogen by IARC, NTP, ACGIH or OSHA.

**Acute Toxicity Values:**

Dicyclohexyl Phthalate: Oral rat LD50 > 2000 mg/kg; Dermal rabbit LD50 > 2000 mg/kg

Dibenzoyl Peroxide: Inhalation rat LC50 24.3 mg/L/4 hr

**12. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

Dicyclohexyl Phthalate: 96 hr LC50 *Oryzias latipes* > 2 mg/L; 48 hr NOEC *daphnia magna* > 2 mg/L; 72 hr EC50 *Pseudokirchnerella subcapitata* > 2 mg/L

Dibenzoyl Peroxide: 96 hr LC50 *Oncorhynchus mykiss* 0.0602 mg/L; 48 hr *daphnia magna* 0.11 mg/L, 72 hr EC50 *Pseudokirchnerella subcapitata* 0.0711 mg/L

**Persistence and degradability:** Dicyclohexyl Phthalate is readily biodegradable. Dibenzoyl peroxide is inherently biodegradable.

**Bioaccumulative potential:** Dibenzoyl peroxide has a BCF of 66.6. Dicyclohexyl Phthalate has a calculated BCF 85.

**Mobility in soil:** No data available.

**Other adverse effects:** None known.

**13. DISPOSAL CONSIDERATIONS**

Dispose in accordance with all local, state and federal regulations.

**14. TRANSPORT INFORMATION**

	UN Number	Proper shipping name	Hazard Class	Packing Group	Environmental Hazard
<b>DOT</b>	UN3106	Organic Peroxide Type D Solid (Dibenzyl Peroxide 50%)	5.2	PG II	None
<b>TDG</b>	UN3106	Organic Peroxide Type D Solid (Dibenzyl Peroxide 50%)	5.2	PG II	None
<b>IMDG</b>	UN3106	Organic Peroxide Type D Solid (Dibenzyl Peroxide 50%)	5.2	PG II	Yes
<b>IATA</b>	UN3106	Organic Peroxide Type D Solid (Dibenzyl Peroxide 50%)	5.2	PG II	Yes

**Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code):** Not applicable – product is transported only in packaged form.

**Special precautions:** None known

## 15. REGULATORY INFORMATION

**CERCLA:** This product is not subject to CERCLA reporting requirements as it is sold. Many states have more stringent release reporting requirements. Report spills required under federal, state and local regulations.

**SARA Hazard Category (311/312):** Acute Health, Chronic Health, Fire Hazard, Reactive

**SARA 313 Information: This product contains the following chemicals subject to Annual Release Reporting Requirements Under SARA Title III, Section 313 (40 CFR 372):**

Dibenzoyl Peroxide	94-36-0	49-51%
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### California Proposition 65

This product contains the following chemicals known to the State of California to cause cancer or reproductive toxicity (birth defects):

**EPA TSCA Inventory:** All of the ingredients in this product are listed on the EPA TSCA Inventory.

### CANADA:

**Canadian CEPA:** All of the ingredients in this product are listed on the Canadian DSL.

**Canadian WHMIS Classification:** Class C (Oxidizing Material), Class D Division 2 Subdivision A (Very Toxic Material Causing other Toxic Effects), Class D Division 2 Subdivision B (Toxic Material Causing other Toxic Effects), Class F (Dangerously Reactive Material)

This product has been classified under the CPR and this SDS discloses information elements required by the CPR.

## 16. OTHER INFORMATION

**NFPA Rating:** Health = 2      Flammability = 2      Instability = 3

**HMIS Rating:** Health = 2      Flammability = 2      Physical Hazard = 3

**SDS Revision History:** Converted to GHS format. All sections revised.

**Date of preparation:** September 8, 2014

**Date of last revision:** New SDS

The above information is accurate to the best of our knowledge. However, since data, safety standards, and government regulations are subject to change and the conditions of handling and use, or misuse, are beyond our control, Dur-A-Flex, Inc. MAKES NO WARRANTY, EITHER EXPRESS OR IMPLIED, WITH RESPECT TO THE COMPLETENESS OR CONTINUING ACCURACY OF THE INFORMATION CONTAINED HEREIN AND USE.